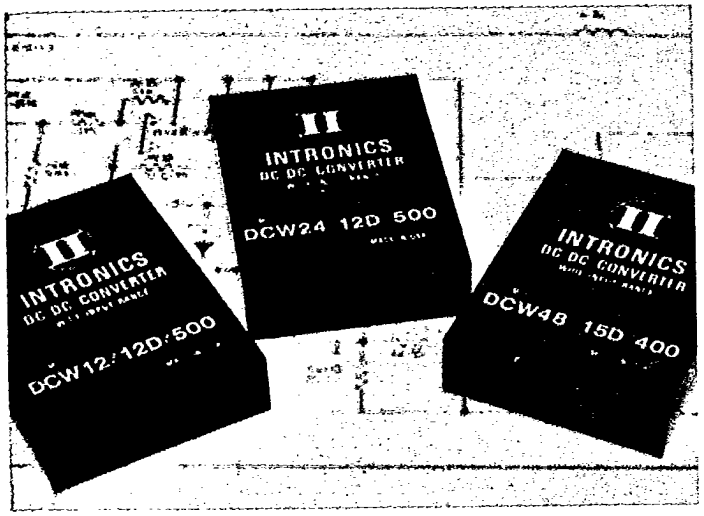
12 Watt Wide Input Range DC-DC Converters/ *DCW Dual Output*

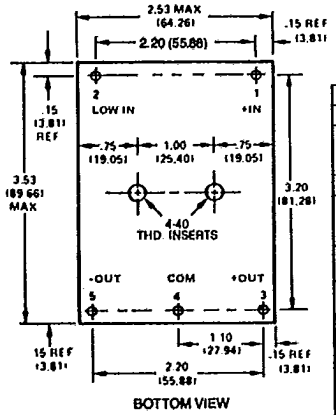


INPUT: 5, 12, 24, 48 VDC
OUTPUT: ±12, ±15VDC

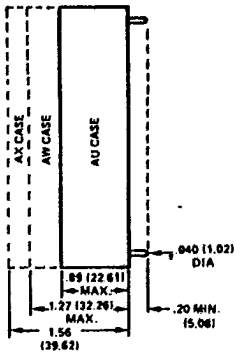
- Wide 2:1 Input Range (on 400 & 500 mA models)
- No Heat Sink Required
- Low Output Ripple
- High Input/Output Isolation
- Short Circuit Protection

The DCW series converters have been designed to provide fully-regulated dual outputs up to 12 watts maximum.

A high-efficiency pulse width modulation switching scheme maintains efficiency while providing the noise and regulation advantages of linear outputs. A high attenuation filter is incorporated which reduces kickback spikes and reflected ripple from inverter switching.



Dimensions in inches (mm)



Specifications Typical at +25° C. After 15 minute warm-up unless otherwise noted.

Model DCW	12/12D/500	12/15D/400	24/12D/500	24/15D/400	48/12D/500	48/15D/400
Input Voltage	9-18VDC	9-18VDC	18-36VDC	18-36VDC	36-72VDC	36-72VDC
Input Current (Nom. Line) No Load Full Load	 200mA 1.67A	 200mA 1.67A	 100mA 830mA	 100mA 830mA	 50mA 420mA	 50mA 420mA
Input Capacitance	47µf	47µf	15µf	15µf	6.8µf	6.8µf
Input/Output Isolation Impedance Voltage	 $10^{11}\Omega$||120pF 300VDC	 $10^{11}\Omega$||120pF 300VDC	 $10^{11}\Omega$||120pF 300VDC	 $10^{11}\Omega$||120pF 300VDC	 $10^{11}\Omega$||120pF 300VDC	 $10^{11}\Omega$||120pF 300VDC
Output Voltage	±12VDC ±1%	±15VDC ±1%	±12VDC ±1%	±15VDC ±1%	±12VDC ±1%	±15VDC ±1%
Output Current Nominal	±500mA	±400mA	±500mA	±400mA	±500mA	±400mA
Output Ripple	7mV rms					
Reflected Input[1] Ripple Current Max. (F.L.)	 150mA p-p					
Regulation Line (Low Line-Hi Line) Load (No Load-Full Load) vs. Temperature	 0.1% max. 0.1% max. 0.05%/°C					
Switching Frequency	40KHz					
Efficiency (L.L. to H.L.)	60%					
Input Protection	Shunt Diode					
Short Circuit Protection	Indefinite					
Temperature Range Operating, No Load Operating, 100% Load Storage	 –25°C to +85°C –25°C to +71°C –25°C to +85°C					
Case Temperature Rise @ 100% Load	 +25°C					
Case Material	Phenolic					
Mating Socket	S126					
Case Size	AU					
Case Weight	14 oz.					

Note:
1. The measured value of input reflected ripple current is independent of the impedance of the power source. The specification above is shown in mA so that the user may calculate ripple voltage unique to the application.

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